

LENSED FIBER HAVING SMALL FORM FACTOR AND METHOD OF MAKING THE SAME

Abstract

A lensed fiber includes an optical fiber and a lens formed at a distal end of the optical fiber. The lens has a minimum diameter determined by $2 \cdot T \cdot \tan(\theta)$, where $\theta = n \cdot \sin^{-1}(NA)$, T is thickness of the lens, n is index of refraction of the lens, and NA is numerical aperture of the optical fiber.